

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2003/002246

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A01N 55/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A01N 55/00, A01N 59/06, A01H 1/02, A01H 5/00, C12N 15/00, C12Q 1/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NPS, PAJ, MEDLINE, DELPHION

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0343947 A (Lubrizol Genetics Inc.) 24. 05. 1989 See the whole Document	1-10
A	US 2002/0129399 A (Marc Albertsen, et al.) 12. 09. 2002 See the Claims & abstract	1-10
A	US 2002/0144305 A (Stephen L. Dellaporta, et al.) 03. 10. 2002 See the whole Document	1-10
A	US 2002/014128 A (Calvin F. Konzak, et al.) 08. 01. 2002 See the whole Document	1-10
P, Y	US 2003/0064894 A (Il-Kyung Chung, et al.) 03. 05. 2003 See the Claims & abstract	1-10
P, Y	KR 2001-0089155 A (Il-Kyung Chung, et al.) 29. 09. 2001 See the Claims & abstract	1-10

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.


* Special categories of cited documents:

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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

Date of the actual completion of the international search
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2003/002246

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0343947 A	24. 05. 1989	US 5053331 JP 2079979 A NZ 0229143 A	01. 10. 1991 25. 05. 1990 26. 02. 1991
US 2002/0129399 A	12. 09. 2002	WO 02071834 A	19. 09. 2002
US 2002/0144305 A	03. 10. 2002	WO 0164926 A EP 1263977 A CN 1426475 T CA 2401495 A	07. 09. 2001 11. 12. 2002 25. 06. 2003 07. 09. 2001
US 2002/014128 A	08. 01. 2002	US 6637279 A DE 10038001 A	28. 10. 2003 21. 02. 2002
US 2003/0064894 A	03. 05. 2003	WO 0165921 A JP 2003525884 T EP 1176863 A	13. 09. 2001 02. 09. 2003 26. 02. 2002
KR 2001-0089155 A	29. 09. 2001	KR 20000011550 A	08. 03. 2000